ECS Configuration Change Request

1. Originator Cherry Kenney	2. Log Date: **11/19/01**	3. CCR #: **01-0884**	4. Rev: —	5. Tel: 3204D	6. Rm #: 3041	7. Dept. DEV

8. CCR Title: Patch_ 6A04_DSS.03 for all DAACs Contains fixes for 21 Sev 2 NCRS and 9 Sev 3 NCRS.

9. Originator Signature/Date **Cherry A. Kenney /s/ 11/19/01**	10. Class **II**	11. Type: **CCR**	12. Need Date: 18Nov01

13. Office Manager Signature/Date **Arthur Cohen /s/ 11/19/01**	14. Category of Change: Initial ECS Baseline Doc.	15. Priority: (If "Emergency" fill in Block 27). Emergency

16. Documentation/Drawings Impacted:	17. Schedule Impact:	18. CI(s) Affected:DSS

19. Release Affected by this Change: 6A	20. Date due to Customer: 18Nov01	21. Estimated Cost: None - Under 100K

22. Source Reference: ☒NCR (attach)   ☐Action Item   ☐Tech Ref. ☐GSFC ☐Other:
32168, 32177, 32194, 31887, 32235, 31638,32200,32107,32125,30021,31520, 32005 (See Page 2 for Additional NCRS)

23. Problem: (use additional Sheets if necessary)
Need to deliver various fixes that have been made to the DSS components (Distribution, Science Data Server, and Storage Management). This includes fixes to 21 Severity 2 NCRs and 9 Severity 3 NCRs.
See page two for list of NCRs.

24. Proposed Solution: (use additional sheets if necessary)
Deliver Patch_ 6A04_DSS.03 . Patch 6A.04_DSS.03 supersedes Patch_6A.04_DSS.02C ., Test Executable 6A.04_HDFE0S.01B(EDC Only), 6A.04_DDIST_STMGT(All DAACs), Test Executable - 6A.04_STMGT_TRAN.01(All DAACs) and TE_6A.04_SDSRV.01(For GSFC ,LaRC and EDC DAACs)
Tarfile was made on 10/24/01.

25. Alternate Solution: (use additional sheets if necessary)
Wait until next s/w release

26. Consequences if Change(s) are not approved: (use additional sheets if necessary)
Delays in getting fixes to the field, DAACs must continue to work around problems

27. Justification for Emergency (If Block 15 is "Emergency"):
NCR fixes are needed at the DAACs to support the 6A.04 baseline in OPS mode

28. Site(s) Affected: ☐EDF   ☒PVC   ☒VATC ☒EDC   ☒ GSFC ☒LaRC ☒NSIDC ☐SMC ☐AK ☐JPL
☐EOC ☐ IDG Test Cell ☐Other

29. Board Comments:	30. Work Assigned To:	31. CCR Closed Date:

32. EDF/SCDV CCB Chair (Sign/Date): **Steve Fox /s/ 11/19/01**	Disposition: Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB

33. M&O CCB Chair (Sign/Date): **Pamela Johnson /s/ 11/19/01**	Disposition: Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ECS

34. ECS CCB Chair (Sign/Date):	Disposition: Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ESDIS

ADDITIONAL SHEET

CCR #:   **Rev:**   **Originator:** Cherry Kenney

Telephone: 301-925-0463   **Office:** 3041

Title of Change: Patch_ 6A04_DSS.03 for all DAACs Contains fixes for 14 Sev 2 NCRS and 3 Sev 3 NCRS.

Clearcase:

Please roll up the following packages from the 6A04NOFW baseline in two SUN tar files and one
IRIX65 tar files.

Sun: tar file

.EcDsDdDISTSRVR.pkg
.EcDsDdDdistGUI.pkg
.EcDsSdDatabase.pkg
.EcDsSdOPSWS.pkg
.EcDsSdSDSRV.pkg
.EcDsStD3.pkg
.EcDsStGUI.pkg
.EcDsStRequestManager.pkg

Also please make a separate SUN tar file which includes all the
/ecs/formal/ESDT/lib/sun5.5/*.so files (these are the DLLs that must
be installed with SDSRV) and file
/ecs/formal/ESDT/sybase/db/data/DsDbSODictionaryData.sql

 SGI:

.EcDsSdHdfEos.pkg
.EcDsSdSrvAMSR.pkg
.EcDsSdSrvDb.pkg
.EcDsSCLI.pkg
.EcDsSdSrvGLAS.pkg
.EcDsSdSrvLLBOX.pkg
.EcDsSdSrvMISR.pkg
.EcDsStArchive.pkg
.EcDsStDatabase.pkg
.EcDsStIngestFtp.pkg
.EcDsStPullMonitor.pkg

Please name tar files Patch_6A.04_DSS.03

DAAC INSTALLATION INSTRUCTIONS

1.   Get TAR Files from CM distribution.

 2. If you are untarring the file for mutiple modes then untar the file as "cmshared" or change the permissions in the staging area
on the files below:

    cd/<distribution_directory>/<stage_directory>/SGI/CUSTOM/dbms
      chmod 744 DSS/EcDsStDbLogin

       cd /<distribution_directory>/<stage_directory>/SUN/CUSTOM/dbms
       chmod 0744 DSS/DsDbSybaseLogins

after you untar the file. Ensure that you update ECS Assist when prompted. Please remember that you must be logged in as "root" when you update ECS Assist.

You will get three tar files: Two SUNs and one IRIX65. Untar them all. Be sure to install the lastest version of Ecs Assist when you untar the the SUN or IRIX tar file that does NOT contain the DLLs.

3. To apply this patch use E.A.S.I to install the following packages:

.EcDsDdDISTSRVR.pkg
.EcDsDdDdistGUI.pkg
.EcDsSdSDSRV.pkg
.EcDsSdOPSWS.pkg
.EcDsSdDatabase.pkg
.EcDsStArchive.pkg
.EcDsStDatabase.pkg
.EcDsStIngestFtp.pkg
.EcDsStGUI.pkg

 (You do not need to install the following packages even though they are on the tape, but if you do that is OK.)

.EcDsSCLI.pkg
.EcDsSdHdfEos.pkg
.EcDsSdSrvAMSR.pkg
.EcDsSdSrvDb.pkg
.EcDsSdSrvGLAS.pkg
.EcDsSdSrvLLBOX.pkg
.EcDsSdSrvMISR.pkg
.EcDsStD3.pkg
.EcDsStRequestManager.pkg
.EcDsStPullMonitor.pkg

 The .EcDsSdMOC.pkg was not put in the tarfile and is not needed since it has not changed since the 6A.04 delivery.

 PATCH_6A.04_DSS.03 replaces PATCH_6A.04_DSS.02c.

4. Check the database patch number for STMGT and SDSRV. If they are not already at the following versions use EcsAssist Subsystem Manager to update the SDSDV and STMGT databases accordingly.

The patch number for STMGT should be 6A78.78.
The Patch number for the SDSRV databases should be 6.0.74.

 (If you are transitioning a mode for the first time after this delivery, be sure you install the .EcDsStDatabase.pkg from this Patch BEFORE you transition your STMGT database. Make sure the databases are at the listed patch levels when you have finished tranistioning. If you have already transitioned your STMGT database, then you only need to apply the new patches.)

5. There are no new configuration parameters for STMGT, DDIST or SDSRV for DSS.03. But there were new configuration parameters for DDIST delivered as part of previous 6A.04 patches. If these parameters have alreeady been configured, skip to step 6.

The new DDIST parameters that were previously delivered were as follows:

     RETREIVAL_CHUNK_SIZE -- Max number of files that can be pulled from AMASS in a single request to AMASS (this parameter was added with STMGT_DDIST_01 TE)

     PullHostInetAddress -- the parameter that will be sent out as the "fully qualified path name" for your distribution notifications for users that are doing FtpPulls.   (Installed as part of Patch_6A.04_DSS.01)

 To set the PullHostInetAddress in your .cfgparms file and the EcDsDistribution.CFG file you should bring up EcsAssist Subsystem manager on the host where DDIST is installed and run mkconfig for the EcDsDd Component. There will be a new parameter called PullHostInetAddress. The value of this parameter can be ANYTHING you want it to be (including blank). There is no value checking of this parameter. The value can be a fully qualified host name like g0acg01u.ecs.nasa.gov (the default value) or an IP address or any combination you want it to be. The code does not care what this value is as it is not used, but just passed in the mail message. Since there is no value checking, please be careful to set the correct value for your DAAC in this parameter.

 To apply the registry patch for this parameter, you use EcsAssist to apply the registry patch from the file

/usr/ecs/<MODE>/CUSTOM/.installed/DSS/distribution/.rgypatch. The Registry patch does not properly set the value though, so after you run the .rgypatch you should then bring up the RegistryGUI and set the value of the parameter to the value you put in your mkcfg.   If you want to use the same value for this new parameter for all modes, it is suggested that you edit the following file in the staging area BEFORE you install any mode. The name of the file in the staging area would be: /<staging_area>/SUN/CUSTOM/.installed/DSS/distribution/.rgypatch .

Otherwise if you don't want to run the registry patch you can use the Population tool to populate the registry with the new Distribution Server parameters after you run mkcfg but be sure you compare the current values in the registry with the ones generated by the mkcfg process before you do this. You don't want to override any parameters that you have previously set only in the Registry.

The third way to get this value in the Registry is to simply use the Registry GUI and add the new parameter and value.

6. The third TAR file that comes with this patch is a copy of all the new DLLs. Recently there was a change to SDSRV which caused all the DLLs to be rebuilt. Use your install user (cm<mode>) to copy the DLLs to /usr/esc/<MODE>/CUSTOM/lib/ESS and then use the mode-manageruser (cmshared or allmode) to copy the DLLs to /usr/ecs/<MODE>/CUSTOM/lib/DSS. (Be sure you do this BEFORE you start the SDSRV and try to use the new DLLs.)

Also included in the third TAR file is the file which contains the SDSRV valids. To install the SDSRV valids copy the DsDbSODictionaryData.sql file from the Staging area to the /usr/ecs/<MODE>/CUSTOM/dbms/DSS directory on the host where the SDSRV resides. Then using ECS assist from the Database menu choose Install valids. Enter the database server, DBO, DBO password and the name of the database. Then click OK.   ECS Assist will report when the valids have been reloaded. If you wish to verify there were no problems installing the SDSRV valids you may review the EcDsSrDbValids.log. You should see no error messages.

7. Remember if you have not previously done so, please configure the names of the hosts which have HIPPI connections in the STMGT GUI for the EcDsStFtpServer(s).   This was covered at one of the recent Patch IPT meetings in September.

END OF DAAC INSTALL INSTRUCTIONS

Item 22 Continued :

31323, 31292, 31898, 32047, 32330 , 30827, 31200, 31086, 30981, 31476, 31477, 31800, 31802, 32093, 32095, 32232, 30100, , 32290

DSS.03- Test Reprt

31520(T)- SDSRV Gui unusable when many requests are present
Test Plan:
1. Observe SDSRV GUI's performance during GSFC 24 hr run.
Test Resolution: SDSRV GUI didn't have any problems. Successfully verified.

32047(T)- SDSRV Cores in 6A.05_P10
Test Plan:
1. Observe SDSRV during EDC 24 hr run.
Test Resolution: No SDSRV core dump occurred during EDC 24 hr run, or during current testing. Successfully verified.

32194(T)- EcDsCheckArchive script needs updating
Test Plan:
1. Execute EcDsCheckArchive script from the ??/utilities directory in t1drg03.
2. Shouldn?t ask for Archive Sever Hardware CI anymore.
Test Resolution: EcDsCheckArchive script still prompts for Hardware CI. Failed verification.

32168(T)- 6A.04_DSS.01:L7 ErrorHandling Tool doesn?t merge L70RWRS
Test Plan:
1. Execute EcDsSrDbL7ErrorHandling script from the ??/dbms/DSS directory in t1acs03.
2. Pick option 3: Merge Subintervals/Scenes.
Test Resolution: Subintervals and scenes merged successfully. Successfully verified.

30021(T)- Populating GenerationDateandTime & ProductionDateTime for ASTER
Test Plan:
1. Issue the following SQL query in t1acs03 from the SDSRV database:
> select * from DsMdAdditionalAttributes where AdditionalAttributeName
    like ?%Gen%?
> go

Attribute ID and GenerationDateTime will displayed.
> select * from DsMdGrStringInfoContent where attributeId = attributeId #
> go
  All granule Id?s associated with entered attributeId will display.
> select * from DsMdGranules where dbID = granuleId
  The granuleId entered will display along with the ProductionDateTime.
  Verify that the ProductionDateTime match the grStringValue from the previous
  query.
Test Resolution: ProductionDateTime matched the grStringValue. Successfully verified.

32177(T)- Hdf Servers stopped Processing after StRegMgr was bounced
Test Plan:
1. Submitt several subsetting requests.
2. Bring Request Manger down & back up.
Test Resolution: Regression tested Hdf Servers.

31323(T)- Longname incorrect in DMS database
Test Plan:
1. Add ?AE_Land3? ESDT.
2. Delete ?AE_Land3? ESDT from all subsystems.
3. Change descriptor for ?AE_Land3? ESDT in the ?../data/ESS directory.
4. Add ?AE_Land3? ESDT again (don?t bounce SDSRV).
5. Check long name in the SDSRV & Data Dictionary
    (they should match and reflect the new descriptor)
6. Delete ?AE_Land3?ESDT from all subsystems.
7. Change descriptor for ?AE_Land3? ESDT back to the original descriptor.
8. Add ?AE_Land3? ESDT again (don?t bounce SDSRV).
9. Check long name in the SDSRV & Data Dictionary
    (they should match and reflect the original descriptor)
Test Resolution: Longname in SDSRV & Data Dictionary matched with the the original descriptor. Successfully verified.

31292(T)- Memory leak in DsClGenRequestInt
Test Plan:
1. Verified by Susan Chang in development.
Test Resolution: Regression tested. Successfully verified.

31898(T)- Sdsrv Client Libraries are causing memory leaks in the V0 Gateway
Test Plan:
1. Run purify. Verified by Susan Chang in development.
Test Resolution: Regression tested. Successfully verified.

32200(T)- 6A.04 OPS orders suspending in the DDIST Gui
Test Plan:
1. Observe DDIST GUI during 24 hr run for "Suspended with Errors" with status of DsEStInsertFileIntoInventory.
Test Resolution: No errors occured. (NSIDC DAAC verification).

32107(T)- Need to merge the start script for the EcTsDsClientDriver
Test Plan:
1. Verify start script is in utilities directory.
2. Use start script to start EcDsTsClientDriver.
Test Resolution: Client Driver started successfully. Successfully verified.

32330(T)- GSFC/SMC: Degregate Ddist GUI from Ddist server and StRegMgr
Test Plan:
1. Observe in the .sitemap that the DDIST & STMGT GUI?s now reside on g0dis01.
Test Resolution: Sitemap has correct machine name for GUI's. Successfully verified.

31887(T)- TS1:5B.07: Floating Scene GEO file problem on Format 1 15me
Test Plan:
1. Regression test Floating/Fixed scenes.
Test Resolution: Can't accurately test here without client specific data.
 (EDC DAAC Verification)

32005(T)- GSFC/SMC ECSGuest Orders not appearing in Distribution
Test Plan:
1. Observe failed orders in DDIST GUI during GSFC 24 hr run.
Test Resolution: Failed orders successfully placed information into Failed Request directory. Successfully verified.

31638(V)- SDSRV client library has defect in handling failure recovery
Test Plan:

1. Submitt ingest request.
2. Bring SDSVR down and then back up.
3. Requests should resume.
Test Resolution: Ingest requests resumed. Successfully verified.

32235(C)- DsMdCatalog::RetrieveSearchResylts () should burn the remaining rows
Test Plan:
1. Stress test using threadtest driver..
Test Resolution: Searches were successful. Successfully verified.

32125(C)- Granule Access Restrictions fail the order rather than only the granule
Test Plan:
1 .Verified by Susan Chang in development.
Test Resolution: Regression tested. Successfully verified.

Summary Of Problems

St=V, Sv=2, Bug id = ECSed32168, Subsystem = OPS_DBDM
Desc: 6A.04_DSS.01:L7 ErrorHandling Tool does not merge L70RWRS d

St=T, Sv=2, Bug id = ECSed32177, Subsystem = OPS_SDSRV_IIF
Desc: Hdf Servers Stopped Processing after StReqMgr was Bounced

St=T, Sv=2, Bug id = ECSed32194, Subsystem = OPS_DBDM
Desc: EcDsCheckArchive script needs updating

St=T, Sv=2, Bug id = ECSed31887, Subsystem = OPS_SDSRV
Desc: TS1:5B.07: Floating Scene GEO file problem on Format 1 15me

St=C, Sv=3, Bug id = ECSed32235, Subsystem = RelB0_SDSRV_DTS
Desc: DsMdCatalog::RetrieveSearchResult() should burn the remaining rows

St=C, Sv=2, Bug id = ECSed31638, Subsystem = OPS_SDSRV_IIF, Close-reason = Fixed
Desc: SDSRV client library has defect in handling failure recovery,

St=T, Sv=2, Bug id = ECSed32200, Subsystem = OPS_STMGT
Desc: Short Description : 6A.04 OPS orders suspending in the distribution GUI

St=C, Sv=3, Bug id = ECSed32107, Subsystem = OPS_SDSRV, Close-reason = Fixed
Desc: Need to merge the start script for the EcTsDsClientDriver

St=C, Sv=2, Bug id = ECSed32125, Subsystem = OPS_SDSRV, Close-reason = Fixed
Desc: Granule Access Restrictions Fail the Order Rather Than Only The Granule

St=V, Sv=3, Bug id = ECSed30021, Subsystem = OPS_DBDM
Desc: Populating GenerationDateandTime & ProductionDateTime for A

St=T, Sv=2, Bug id = ECSed31520, Subsystem = OPS_SDSRV
Desc: sdsrv gui unusable when many requests are present

St=T, Sv=2, Bug id = ECSed32005, Subsystem = OPS_SDSRV
Desc: GSFC/SMC ECSGuest Orders not appearing in Distribution

St=C, Sv=2, Bug id = ECSed31323, Subsystem = OPS_SDSRV, Close-reason = Fixed
Desc: LongName incorrect in DMS database,

St=C, Sv=2, Bug id = ECSed31292, Subsystem = OPS_SDSRV_IIF, Close-reason = Fixed
Desc: Memory leak in DsClGenRequestInt, Assigned to = schang, Found: 010621

St=C, Sv=2, Bug id = ECSed31898, Subsystem = OPS_SDSRV, Close-reason = Fixed
Desc: Sdsrv Client Libraries are causing memory leaks in the V0 Gateway.,

St=V, Sv=2, Bug id = ECSed32047, Subsystem = OPS_SDSRV_IIF
Desc: SDSRV Core in 6A.05_P10

St=V, Sv=2, Bug id = ECSed32330, Subsystem = OPS_DDIST
Desc: GSFC/SMC: Segregate DDist GUI from DDist server and StReqMg

St=C, Sv=3, Bug id = ECSed30827, Subsystem = OPS_MSS

Desc: EcCoMkDeliver not delivering EcCoEpMgr and EcCoCdsMgr files

St=C, Sv=2, Bug id = ECSed31200, Subsystem = RelB0_MSS
Desc: Unable to install Trouble Ticket package using Ecs Assist

St=C, Sv=2, Bug id = ECSed31086, Subsystem = RelB0_MSS
Desc: The New 6A.05 EcsAssist can NOT be installed and start 6A.04 servers

St=R, Sv=2, Bug id = ECSed30981, Subsystem = OPS_MSS
Desc: GSFC/SMC Version bug Landover tcl Dbviewer
Submitted by = rstrub, Found: 010529, Assigned to = dclark

St=C, Sv=2, Bug id = ECSed31476, Subsystem = OPS_MSS,
Desc: ADD option and UPD options should work differently in .cfgpatches,

St=C, Sv=2, Bug id = ECSed31477, Subsystem = OPS_MSS,
Desc: 6A04 EcsAssist will not allow you to only make one server .CFG file,

St=C, Sv=3, Bug id = ECSed31800, Subsystem = OPS_MSS,
Desc: Remove the V0Client from the .packages file

St=C, Sv=3, Bug id = ECSed31802, Subsystem = RelB0_MSS
Desc: The cfgpatch process is putting tabs in the .cfgparms

St=C, Sv=2, Bug id = ECSed32093, Subsystem = OPS_MSS
Desc: Cfgpatch must add revision level if does not exeist.,

St=C, Sv=3, Bug id = ECSed32095, Subsystem = OPS_MSS,
Desc: Installation color status not propagated properly using EASI.,

St=T, Sv=3, Bug id = ECSed30100, Subsystem = OPS_MSS
Desc: more .sitemap changes needed for LARC

St=R, Sv=2, Bug id = ECSed32290, Subsystem = OPS_MSS
Desc: Need to make changes to .sitemap, .sitehostmap and .hostmap for SI&T

St=R, Sv=3, Bug id = ECSed32232, Subsystem = OPS_MSS
Desc: Unable to install from stage area in EDF for new